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## U. S. Defectors' Cipher, Code Cracking Brains Give Soviets Specialized Reports

WASHINGTON (AP) Soviets may be expected to use they ought to be shot. These birds statistical measures. the highly specialized knowledge didn't know anything about the Bor these purposes, they must tion the meanings of words begin cracking techniques.

basis of the work done by Bernon F. Mitchell and William H. Martin at the top-secret headquarters of NSA in Ft. Monde, Md.

Two congressional groups are agencies will open hearings next Thursday, Witnesses will include Maurice H. Klein, NSA's director istical work." of personnel, and Gen. C. P. Cabell, deputy director of the Central Intelligence Agency. The cians of their grade is interesting, tronic "brain" can do it in sec- graph or radio, and for decoding. next Friday.

"I think they're a couple of trai-ports embodying the enterpreta- out the number of times a parucThe tors and if we had them back here tion and analysis of calculated ular code word or symbol appears

There appears to be no belief This appears probable on the the Soviets any vital policy or military plans.

classified information about going to look into the defection of plans." And the Pentagon state-American weapons or defense

> The two men were both funior mathematicians employed in limited areas of communications statfications needed by mathemati-

The question of the defectors of data; skill, judgment and came up recently when former President Harry S. Truman talked with newsmen on his articles in the selection and use of statistical methods. The present of the defectors of data; skill, judgment and imay codes of substitution of letters or numerals be used, but these codes may be prepared the prepared of statistical methods. The prepared in plain language. They are broadcast, vanced statistical analysis requir-

use electronic computors. Such to emerge. computors are at the heart of curthat Mitchell and Martin took to rent methods for deciphering and old. First it was the mere suldecoding intercepted cryptographic messages. The major function The Defense Department said of NSA is to tune in on the cryptoearlier "they had no access to graphic messages transmitted by Communist radio stations.

The precise procedure used by the code clerus. A special armed ment also sought to dismiss this code cracking, together with the services subcommittee investigation with the comment at that methods of interpreting the com-NSA in setting up computors for puter's answers, must be of im-portant value to the Soviets. method

One of the first stops is to find

The art of cipher is centuries stitution of letters or words in written communications, perhaps based on beginning the code alphabet at some arbitrarily selected point in the regular alphabet or working out a series of words to represent letters.

But modern wars and diplomacy and international intrigue much more secret methods delivered in much, Perfection of computers has greater volume at much higher come since World War II. Until speed. So in recent years has However, a study of the quali-then code cracking was laborious come the cryptograph machine,

language. They are broadcast, without an address or signature. and mean nothing except to a particular receiving point waiting for a prearranged message.

An example was the fake weather report sent "In the clear" by Japan signaling the breaking off of negotiations on Pearl Harbor Day. This "East wind rain" message was intercepted and interpreted, although history shows that full use of the information was not made in the final hours of crisis. A second plain-language code message sent was not interpreted until long after the event: "Climb Mt. Nitaka," which meant begin the attack.